TRET'YAKOV, A. F.; SHCHEPOT'YEVA, Y. S.; FRENKLAKH, Kh. G.

Treatment of chronic eczema with radioactive bandages containing active substances of thoron decay products (alpha therapy). Vest. derm. i ven. 34 no.1:35-41 Ja '60. (MIRA 14:12)

1. Iz radiologicheskoy laboratorii (zav. - prof. Ye. S. Shchepot'yeva) Gosudarstvennogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (dir. - kandidat meditsinskikh nauk G. N. Pospelova) i Klinicheskoy kozhno-venerologicheskoy bol'nitsy imeni Korolenko (glavnyy vrach A. I. Pustovaya).

(ALPHA RAYS—THERAPEUTIC USE) (ECZEMA)
(THORIUM—THERAPEUTIC USE)

TRET'YAKOV, A.G., inzh.; FOMIN, V.V., inzh.

Gantry crane for the relocation and exchange of rails. Put' i put.khoz. 7 no.1:18-19 '63. (MIRA 16:3)

(Cranes, derricks, etc.)

TRET'YAKOV, A.I.

P.1

PHASE I BOOK EXPLOITATION SOV/3700

Moscow. Dom nauchno-tekhnicheskoy propagandy im. F.Ye. Dzerzhinskogo

Nakatyvaniye zubchatykh koles (Gear Rolling) Moscow, 1958, 35 p. (Series: Peredovoy opyt proizvodstva. Seriya "Tekhnologiya mashinostroyeniya," vyp. 11, Obrabotka metallov davleniyem) 4,000 copies printed.

Ed.: A.V. Rebel'skiy; Tech. Ed.: R.A. Sukhareva.

PURPOSE: This booklet is intended for qualified workers in the field of gear rolling.

COVERAGE: The two articles in this booklet give data obtained from experiments carried out at the Konotop "Krasnyy metallist" Plant in cooperation with TsNIITMASh (Central Scientific Research Institute of Technology and Machine Building) to improve the process of hot and cold gear rolling. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Card 1/2

SOV/3700

Gear Rolling

The author describes two methods for rolling gears and gear-rolling equipment developed and introduced at the "Krasnyy metallist" plant. He also gives specifications for comparison with teeth made by other methods.

Shaukstel', L.S. Increasing the Life of Forming Gears Used for Cold Rolling of Small Module Gears 20

The author discusses the design and manufacturing processes of forming gears and arbors, the selection of material, and the rolling regime. He also gives instructions for operation and for determining the life of forming gears.

AVAILABLE: Library of Congress

VK/mg
6-27-60

Card 2/2

TRET'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Use of ultrasonic waves in studying the quality of concrete in the bridge crossing beams of the Kremenchug Hydroelectric Power Station. Energ. stroi. no.16:22-26 '60. (MIRA 16:12)

1. Moskovskiy inzhenerno-stroitel'nyy institut im. Kuybysheva.

TRET'YAKOV, Anatoliy Konstantinovich, kand. tekhn. nauk; YERLIN, B.G., nauchn. red.; SVIROSVETOVA, V.G., red.

[Concrete work] Betonnye raboty. Moskva, Vysshaia shkola, 1964. 254 p. (MIRA 17:8)

TRET'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Study of solid concrete with ultrasonic waves. Energ. stroi. no.27:61-66 '62. (MIRA 15:9)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni inzhenerno-stroitel'nyy institut imeni Kuybysheva.
(Ultrasonic waves--Industrial applications) (Concrete--Testing)

TRET'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Ultrasonic testing of centrifuged shell columns. Transp. stroi., no.2:28-31 F '61. (MIRA 14:2)

(Ultrasonic testing) (Piers) (Columns, Concrete)

FILONIDOV, A.M., inzh.; TRET'YAKOV, A.K., kand.tekhn.nauk

Ultrasonic strength control of concrete in bridge beams.
Transp. stroi. 11 no.8:47-48 Ag '61. (MIRA 14:9)
(Ultrasonic waves--Industrial applications)
(Beams and girders)

TRET'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Using utlrasonic methods in testing the quality of concrete.
Gidr.stroi. 30 no.2:48-50 F '60. (MIRA 13:5)
(Concrete--Testing)
(Ultrasonic waves--Industrial applications)

TRET'YAKOV, A. K.

TRET'YAKOV, A. K.: "Investigation of methods of separate concrete work on hydraulic-engineering construction." Moscow, 1955. Min Higher Education USSR. Moscow Order of Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev. (Dissertation for the Degree of Candidate of TECHNICAL SCIENCES)

SO: Knizhnaya Letopis' No. 51, 10 December 1955

TRET'YAKOV, A.K., kand. tekhn. nauk; FILONIDOV, A.M., inzh.; KRISTOV, V.L., prof., red.

[Control of concrete by ultrasonic waves in hydraulic-engineering construction] Kontrol' betona ul'trazvukom v gidrotekhnicheskom stroitel'stve. Moskva, Energiia, 1964. 85 p. (MIRA 17:10)

DANILOV, Nikolay Nikolayevich, kand. tekhn. nauk; SHREYBER, Andrey Konstantinovich, kand. tekhn. nauk; TRET'YAKOV, A.K., nauchnyy red.; MAKAROVA, L.V., red.; PERSON, M.N., tekhn. red.

[Concrete construction]Proizvodstvo betonnykh rabot. Moskva, Proftekhizdat, 1962. 237 p. (MIRA 15:9)
(Concrete construction)

TRET'YAKOV, A.K., kand.tekhn.nauk; FILONIDOV, A.M., inzh.

Advantages of the application of ultrasonic waves in testing concrete for strength. Energ.stroi. no.25:51-54 '61. (MIRA 15:4)

1. Moskovskiy inzhenerno-stroitel'nyy institut im. V.V.Kuybysheva.
(Concrete construction) (Ultrasonic testing)
(Kremenchug Hydroelectric Power Station--Concrete construction)

SHARIPOV, V.Sh.; MUSIN, A.Ch.; MUZGIN, S.S.; LYSENKO, I.Z.; RADCHENKO, G.A.; TRET'YAKOV, A.M.

Improvements in the technology of ore mining in Dzhezkazgan. Trudy Inst. gor. dela AN Kazakh. SSR 2:24-43 '57. (MIRA 10:12)
(Dzhezkazgan--Mining engineering)

SHARIPOV, Vakhit Sharipovich, kand.tekhn.nauk; KUNTUKOV, Yuriy Grigor'yevich, inzh.; MUZGIN, Sergey Spiridonovich, kand.tekhn.nauk; TKACHENKO, Artem Mikhaylovich; TRET'YAKOV, Aleksey Mikhaylovich, inzh.; SHCHERBAK, Georgiy Sergeyevich, inzh.; TARASOV, L.Ya., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Hole drilling equipment] Karetki i agregaty dlia bureniia shpurov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 134 p. (MIRA 12:4)

1. Institut gornogo dela AN KazSSR (for all except Tarasov, Partsevskiy, Attapovich).

(Boring machinery)

TRET'YAKOV, A. N.

Result of training of sanitation-epidemiologic personnel for centers of the Riazan district . Gig. sanit., Moskva no.7:47-49 July 1951. (CIML 21:1)

1. Of Ryazan' Oblast Sanitary-Epidemiological Station.

TRET'YAKOV, A. N.

AID P - 2481

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 10/19

Authors : Tret'yakov, A. N., Yavel'berg, G. I.

Title : Problem of the organization of laboratory control in industrial establishments

Periodical : Gig. i san., 7, 42-43, Jl 1955

Abstract : Discusses the desirability of establishing laboratories of sanitation chemistry in all leading plants for the control of the purity of air and for helping the administration to work out appropriate sanitary measures.

Institution: Ryazan Regional Medical and Epidemiological Station

Submitted : Sept. 18, 1954

TRET'YAKOV, A., redaktor; MINSKER, S., redaktor.

[Essays on the development of railroad science and technology] Ocherki razvitiia zheleznodorozhnoi nauki i tekhniki. [Redaktory A.Tret'iakov, S.Minsker] Moskva, Gos. transp. zhel-dor. izd-vo, 1953. 322 p. (MLRA 6:10)
(Railroads)

TRET'YAKOV, A. P.

623 Tekhnicheskaya osnova rosra gruzooborota zheleznodorozhnogo transporta. Po matalialam "Voskresnykh chteniy" Politekhn muzeya. M., "Znoniye", 1954, 40 s. 20sm (Vsesoyuz o-va po rasprostraneniyu polit. i nauch. znaniy. Seriya 4. No 30). 51,500 ekz. 60 K. - (54-54382) p 656.2.

SO: Knizhnaya Letopis, Vol 1, 1955

TRET'YAKOV, A.P., kand.tekhn.nauk; BLIZNYANSKIY, A.S., inzh., red.; SOFIANO, N.K., red.; PEREVERZEVA, T.A., tekhn.red.

[Modern powerful diesel locomotives, built in foreign countries] Sovremennye moshchnye zarubezhnye teplovozy. Red.A.S.Bliznianskii. Moskva, Vses.in-t nauchn.i tekhn.informatsii, 1959. 89 p. (MIRA 13:3)

(Diesel locomotives)

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report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

TRET'YAKOV, A.P

MIKHAYLOV, V.F., doktor tekhnicheskikh nauk, professor; TRET'YAKOV, A.P., kandidat tekhnicheskikh nauk.

Method of drawing up intensive schedules of locomotive utilization. (MLRA 8:5)
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(Locomotive--Performance)

TRET'YAKOV, A.P.; RYSHCHUK , N.S., redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Scientists and inventors in railroad transportation; collected articles] Uchenye i izobretateli zheleznodorozhnogo transporta; sbornik statei. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 227 p. (MLRA 10:4)
(Engineers) (Inventors) (Railroad research)

TRET'YAKOV, A. P. and NIKOLAEV, IVAN IVANOVICH

Podvizhnoi sostav i tiaga poezdov. Dop. v. kachestve uchebn. posobiia dlia in-tov zhel-dor. transporta ekspluatatsionnoi septsial'nosti. Moskva, Transzheiforizdat, 1950. 463 p. diagrs.

Rolling stock and train traction.

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TRET'YAKOV, A.P.

NIKOLAYEV, Ivan Ivanovich, professor, redaktor; MIKHAYLOV, Vladimir Fedorovich, professor; TRET'YAKOV, Aleksandr Petrovich, kandidat tekhnicheskikh nauk; BOCHAROV, Nikolay Filippovich, kandidat tekhnicheskikh nauk; TSEKLISHCHEV, P.A., inzhener, redaktor; VERINA, G.P., tekhnicheskiy redaktor.

[Rolling stock and locomotives] Podvizhnoi sostav i tiaga.poezdov. Izd. 2-e, perer. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1955. 439 p. (MLRA 8:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Nikolayev). (Railroads--Rolling stock) (Locomotives)

ANDREYEV, A.B.; ANTONOV, A.I.; ARAPOV, P.P., BARMASH, A.I., BEDNYAKOVA, A.B.; BENIN, G.S.; BERESNEVICH, V.V.; BERNSHTEYN, S.A.; BITYUTSKOV, V.I.; BLYUMENBERG, V.V.; BONCH-BRUYEVICH, M.D.; BORMOTOV, A.D.; BULGAKOV, N.I.; VEKSLER, B.A.; GAVRILENKO, I.V.; GENDLER, Ye.S., [deceased]; GERLIVANOV, N.A., [deceased]; GIBSHMAN, Ye.Ye.; GOLDOVSKIY, Ye.M.; GORBUNOV, P.P.; GORYALNOV, F.A.; GRINBERG, B.G.; GRYUNER, V.S.; DANOVSKIY, N.F.; DZEVUL'SKIY, V.M., [deceased]; DREMAYLO, P.G.; DYBETS, S.G.; D'YACHENKO, P.F.; DYURNBAUM, N.S., [deceased]; YEGORCHENKO, B.F. [deceased]; YEL'YASHKEVICH, S.A.; ZHEREBOV, L.P.; ZAVEL'SKIY, A.S.; ZAVEL'SKIY, F.S.; IVANOVSKIY, S.R.; ITKIN, I.M.; KAZHDAN, A.Ya.; KAZHINSKIY, B.B.; KAPLINSKIY, S.V.; KASATKIN, F.S.; KATSAUROV, I.N.; KITAYGORODSKIY, I.I.; KOLESNIKOV, I.F.; KOLOSOV, V.A.; KOMAROV, N.S.; KOTOV, B.I.; LINDE, V.V.; LEBEDEV, N.V.; LEVITSKIY, N.I.; LOKSHIN, Ya.Yu; LUTTSAU, V.K.; MANNERBERGER, A.A.; MIKHAYLOV, V.A.; MIKHAYLOV, N.M.; MURAV'YEV, I.M.; NYDEL'MAN, G.E.; PAVLYSHKOV, L.S.; POLUYANOV, V.A.; POLYAKOV, Ye.S.; POPOV, V.V.; POPOV, N.I.; RAKHLIN, I.Ye., RZHEVSKIY, V.V.; ROZENBERG, G.V.; ROZENTRETER, B.A.; ROKOTYAN, Ye.S.; RUKAVISHNIKOV, V.I.; RUTOVSKIY, B.N. [deceased]; RYVKIN, P.M.; SMIRNOV, A.P.; STEPANOV, G.Yu, STEPANOV, Yu.A.; TARASOV, L.Ya.; TOKAREV, L.I.; USPASSKIY, P.P.; FEDOROV, A.V.; FERE, N.E.; FRENKEL', N.Z.; KHEYFETS, S.Ya.; KHLOPIN, M.I.; KHODOT, V.V.; SHAMSHUR, V.I.; SHAPIRO, A.Ye.; SHATSOV, N.I.; SHISHKINA, N.N.; SHOR, E.R.; SHPICHENETSKIY, Ye.S.; SHPRINK, B.E.; SHTERLING, S.Z.; SHÜTYY, L.R.; SHUKHGAL'TER, L. Ya.; ERVAYS, A.V.;

(Continued on next card)

ANDREYEV, A.B. (continued) .... Card 2.

YAKOVLEV, A.V.; ANDREYEV, Ye.S., retsenzent, redaktor; BERKEN-GEYM,B.M., retsenzent, redaktor; BERMAN, L.D., retsenzent, redaktor; BOLTINSKIY, V.N., retsenzent, redaktor; BONCH-BRUYEVICH, V.L., retsenzent, redaktor; VELLER, M.A., retsenzent, redaktor; VINOGRADOV, A.V., retsenzent, redaktor; GUDTSOV, N.T., retsenzent, redaktor; DEGTYAREV, I.L., retsenzent, redaktor; DEM'YANYUK, F.S., retsenzent; redaktor; DOBROSMYSLOV, I.N., retsenzent, redaktor; YELANCHIK, G.M. retsenzent, redaktor;ZHEMOCHKIN, D.N., retsenzent, redaktor; SHURAVCHENKO, A.N., retsenzent, redaktor; ZLODEYEV, G.A., retsenzent, redaktor; KAPLUNOV, R.P., retsenzent, redaktor; KUSAKOV, M.M., retsenzent, redaktor; LEVINSON, L.Ye., [deceased] retsenzent, redaktor; MALOV, N.N., retsenzent, redaktor; MARKUS, V.A. retsenzent, redaktor; METELITSYN, I.I., retsenzent, redaktor; MIKHAYLOV, S.M., retsenzent; redaktor; OLIVETSKIY, B.A., retsenzent, redaktor; PAVLOV, B.A., retsenzent, redaktor; PANYUKOV, N.P.,retsenzent, redaktor; PLAKSIN, I.N., retsenzent, redaktor; RAKOV, K.A. retsenzent, redaktor; RZHAVINSKIY, V.V., retsenzent, redaktor; RINBERG, A.M., retsenzent; redaktor; ROGOVIN, N. Ye., retsenzent, redaktor; RUDENKO, K.G., retsenzent, redaktor; RUTOVSKIY, B.N., [deceased] retsenzent, redaktor; RYZHOV, P.A., retsenzent, redaktor; SAMDOMIRSKIY, V.B., retsenzent, redaktor; SKRAMTAYEV, B.G., retsenzent, redaktor; SOKOV, V.S., retsenzent, redaktor; SOKOLOV, N.S., retsenzent, redaktor; SPIVAKOVSKIY, A.O., retsenzent, redaktor; STRAMENTOV, A.Ye., retsenzent, redaktor; STRELETSKIY, N.S., retsenzent, redaktor;

(Continued on next card)

ANDREYEV, A.V.,(continued) .... Card 3.

TRET'YAKOV, A.P., retsenzent, redaktor; FAYERMAN, Ye.M., retsenzent, redaktor; KHACHATYROV, T.S., retsenzent, redaktor; CHERNOV, H.V., retsenzent, redaktor; SHERGIN, A.P., retsenzent, redaktor; SHESTOPAL, V.M., retsenzent, redaktor; SHESHKO, Ye.F., retsenzent, redaktor; SHCHAPOV, N.M., retsenzent, redaktor; YAKOBSON, M.O., retsenzent, redaktor; STEPANOV, Yu.A., Professor, redaktor; DEM'YANYUK, F.S., professor, redaktor; ZNAMENSKIY, A.A., inzhener, redaktor;PLAKSIN, I.N., redaktor; RUTOVSKIY, B.N. [deceased] doktor khimicheskikh nauk, professor, redaktor; SHUKHGAL'TER, L. Ya, kandidat tekhnicheskikh nauk, dotsent, redaktor;BRESTINA, B.S., redaktor; ZNAMENSKIY, A.A., redaktor.

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ANDREYEV, A.V. (continued) .... Card 4.

[Concise polytechnical dictionary] Kratkii politekhnicheskii slovar'. Redaktsionnyi sovet; IU.A.Stepanov i dr. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1955. 1136 p. (MLRA 8:12)

1. Chlen-korrespondent AN SSSR (for Plaksin)
(Technology--Dictionaries)

MAKHAN'KO, M.G., dotsent; TRET'YAKOV, A.F., dotsent; KRIVETS, V.I., kand. tekhn. nauk

Analyzing the external coefficient of heat transfer by the corrugated surface of diesel locomotive coolers. Trudy MIIT no.169:81-92 '63. (MIRA 17:6)

TRET'YAKOV, A.P., kand. tekhn. nauk; CHEN KHUA-DIN [Ch'eng Hua-ting], inzh.

Effect of ultrasonic waves on the intensification of heat exchange. Teploenergetika 7 no.11:64-69 N '60. (MIRA 14:9)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta. (Heat--Transmission) (Ultrasonic waves--Industrial applications)

TRET'YAKOV, A.P.; NIKOLAYEV, L.A.; CHEN KHUA-DIN [Ch'eng Hua-ting]; ZERNOVA, M.V.; TULUPOV, V.A.

Cleaning oil sections of coolers without dismounting them from the diesel locomotive. Trudy MIIT no.110:125-150 '59. (MIRA 13:4)

(Diesel locomotives--Maintenance and repair)

TRET'YAKOV, Aleksandr Petrovich; SMIRNOV, V.A., red.

[Problems of the intensification of the heat exchange of diesel locomotive coolers] Voprosy intensifikatsii teploobmena teplovoznykh kholodil'nikov. Moskva, Vysshaia shkola, 1963. 133 p. (Moscow. Moskovskii institut inzhenerov zheleznodorozhnogo transporta. Trudy, no.133). (MIRA 17:4)

TRET'YAKOV, Aleksandr Petrovich, kandidat tekhnicheskikh nauk; SHVETSOV, I.B., redaktor; DMITRIYEVA, R.V., tekhnicheskiy redaktor.

[Technical basis of the increase of freight handling in railroad transportation] Tekhnicheskaia osnova rosta gruzooborota zheleznodorozhnogo transporta. Moskva, Izd-vo "Znanie," 1954. 36 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii, Ser. 4, no.30) (MLRA 7:11)
(Railroads--Freight)

SHISHKIN, K.A., prof. [deceased]; DOMBROVSKIY, A.B., dotsent; TRET'YAKOV, A.P., dotsent; SOLOMENNIKOV, V.A., dotsent; BOGOYAVLENSKIY, V.N., dotsent; STEPANOV, A.D., doktor tekhn. nauk; IVAKOV, V.N., prof.; KUZNETSOV, N.V., kand.tekhn.nauk; SLITIKOV, P.A., prof., doktor tekhn.nauk, retsenzent; GAKKEL', Ye.Ya., dotsent, doktor tekhn.nauk, retsenzent; PANSKIY, V.M., dotsent, kand.tekhn.nauk, retsenzent; LUGININ, N.G., kand.tekhn. nauk, red.; KHITROV, P.A., tekhn.red.

[Diesel locomotives] Teplovozy. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1960. 340 p. (MIRA 14:1)

1. Leningradskiy ordena Lenina institut inzhenerov zheleznodorozhnogo transporta im. akademika V.N.Obraztsova (for Slitikov, Gakkel', Panskiy).

(Diesel locomotives)

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S/096/60/000/011/009/018
E073/E135

11.9200

AUTHORS: Tret'yakov, A.P. (Candidate of Technical Sciences) and Chen Khua-Din (Engineer)

TITLE: Influence of Ultrasonics on Intensifying Heat Exchange

PERIODICAL: Teploenergetika, 1960, No 11, pp 64-66

TEXT: Results published in the literature (Refs 1-4) on the possibilities of intensifying heat exchange by ultrasonics relate to conditions of natural convection. The authors of this paper investigated the influence of ultrasonics on the heat transfer coefficient from a liquid flowing inside a tube to a medium which flows longitudinally on the outside of the tube. The experimental work was carried out on three identical setups (Fig 1) at the Physics Chair MIIT, the "Svoboda" works and in the Institute of Mined Fuel, Academy of Sciences, USSR (IGI). Water or oil was heated in a pressure vessel (3 in Fig 1) to a certain temperature, fed from there through a hose into the experimental length of the tube (2), and from there it flowed into a tank at a lower level. The experimental section of the tube (2), which was cooled externally with running water, was subjected to ultrasonic oscillations produced by a magnetostriction vibrator located at a

Card 1/3

S/096/60/000/011/009/018
E073/E135

Influence of Ultrasonics on Intensifying Heat Exchange

distance of 10 mm from the experimental tube. In two installations a single magnetostriction vibrator was used which was placed below the investigated tube, and in the third installation a series of vibrators were used which were placed on both sides of the tube. Each experiment with ultrasonics was preceded by an identical one without ultrasonics. The heat transfer coefficient in the case of ultrasonics acting from one side only with a vibration intensity of 6 W/cm^2 showed a 30% increase, whilst in the case of action of the ultrasonics from two sides with an intensity of 7 W/cm^2 it showed an increase of 80%. It is assumed that in addition to turbulising the flow under the effect of ultrasonics with a wave front perpendicular to the axis of the tube, a bending wave formed in the latter under the influence of which a standing wave forms in the boundary layer which reduces its thickness. The more intensive the bending wave, the higher will be the amplitude of the standing wave, and the thinner the boundary layer, and consequently the higher will be the heat transfer coefficient. Special qualitative experiments were carried out and from the results the following conclusions are drawn:

84923

S/096/60/000/011/009/018
E073/E135

Influence of Ultrasonics on Intensifying Heat Exchange

1) An increase in the intensity of the ultrasonics brings about an increase in the heat transfer.
2) As a result of increased absorption of the oscillations in solids and in liquids, the effect of ultrasonics on the heat transfer decreases with increasing frequency for an equal intensity (Fig 3).
3) Differing solids have differing absorptions of the ultrasonics and therefore the intensity of the heat transfer depends on the material of the tube; the effect was considerably higher for a duralumin tube than for a copper tube.
4) Practical application of ultrasonics for the purpose of intensifying heat transfer will require further experimental verification of various designs with the aim of utilising fully the energy of the ultrasonic vibrations.
There are 3 figures and 4 references: 2 Soviet, 1 English and 1 translation.

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of Railroad Transportation Engineers)

Card 3/3

PANOV, N.I., prof.; TRET'YAKOV, A.P.

Selecting the run of pipes of a diesel locomotive radiator.
Trudy MIIT no.151:61-64 '62. (MIRA 16:2)
(Diesel locomotives—Cooling)

PANOV, N.I., prof.; TRET'YAKOV, A.P., dotsent; KOROLEV, N.I., inzh.

Heat transfer through ribbed pipes. Trudy MIIT no.151:42-60 '62. (MIRA 16:2)
(Heat--Transmission) (Diesel locomotives--Cooling)

PANOV, N.I., prof.; TRET'YAKOV, A.P., dotsent; KOROLEV, N.I., inzh.

Investigating the heat transfer of single flat ribbed pipes depending on the parameters of ribbing. Trudy MIIT no.151: 29-41 '62. (MIRA 16:2)
(Heat--Transmission) (Diesel locomotives--Cooling)

PANOV, N.I., prof.; TRET'YAKOV, A.P., dotsent; MIIAY, N.I., inzh.

Investigating the heat transfer of the single pipes of diesel locomotive coolers. Trudy MIIT no.151:4-28 '62. (MIRA 16:2)

(Heat--Transmission) (Diesel locomotives--Cooling)

PANOV, N.I., prof.; TRET'YAKOV, A.P., dotsent; KRAVETS, Z.I., kand. tekhn.nauk; KOROLEV, N.I., inzh.

Studying the cooling system of the TGK diesel locomotive. Trudy MIIT no.151:65-74 '62. (MIRA 16:2)
(Diesel locomotives--Cooling)

L 19351-63 EPR/EPF(c)/EWP(k)/EWT(l)/EPF(n)-2/EWP(q)/EWT(m)/BDS AFFTC/
ASD/IJP(C)/SSD Pe-4/Pr-4/Pf-4/Pu-4 WW/JD/HW

ACCESSION NR: AR3005022 S/0273/63/000/006/0015/0015

SOURCE: RZh. Dvigateli vnutrennogo sgoraniya, Abs. 6.39.113

AUTHOR: Panov, N. I.; Tret'yakov, A. P.; Korolev, N. I.

TITLE: Heat transfer through ribbed pipes

CITED SOURCE: Tr. Mosk. in-ta inzh. zh.-d. transp., vy*p. 151, 1962, 42-60

TOPIC TAGS: heat transfer, heat exchanger

TRANSLATION: The authors describe a method of thermal computation of flat heat exchanger pipes with ribs of constant rectangular cross-section. The method is in good agreement with experimental data.

DATE ACQ: 01Jul63 SUB CODE: MD ENCL: 00

Card 1/1

PANOV, N.I., prof.; TRET'YAKOV, A.P., dotsent; KOROLEV, N.I., inzh.

Selecting the efficient parameters and designs for the oil cooling radiators of diesel locomotive diesel engines. Trudy MIIT no.169:4-15 '63. (MIRA 17:6)

PANIV, N.I., prof.; TRET'YAKOV, A.P., dotsent; KRAVETS, Z.I., kand. tekhn. nauk

Investigating the shortened standard sections of the cooler for the TFK2 switch diesel locomotive. Trudy MIIT no.169:16-27 '63.
(MIRA 17:6)

TRET'YAKOV, A.S. (Frunze)

Use of pneumoperitoneum in the compound treatment of tuberculosis of the lungs. Klin. med. 40 no.12:41-42 D '62.
(MIRA 17:2)

1. Iz Kirgizskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. Yu.A. Volokh, zam. direktora po nauchnoy chasti - prof. S.Ye. Nezlin).

TRET'YAKOV, A.V.

TSELIKOV, A.I.; TRET'YAKOV, A.V., inzhener.

Computing the pressure of metal on the rollers in cold rolling by taking into account tension and cold hardening. Vest.mash. 34 no.12:10-12 D'54. (MLRA 8:2)

1. Chlen-korrespondent Akademii nauk SSSR (for TSelikov)
(Rolling-mill machinery)

TSELIKOV, A.I.; KOROLEV, A.A., kand. tekhn. nauk; TRET'YAKOV, A.V., kand. tekhn. nauk.

New combined multiple roll mill for rolling thin strips. [Trudy] TSNIITMASH 73:5-28 '55. (MIRA 11:3)

1. Chlen-korrespondent AN SSSR (for TSelikov).
(Rolling mills)

TRET'YAKOV, A. V., KOROLEV, A. A.

(Candidates of) Study of Cold-Rolling of Thin Stainless Strip on the TsKBMM Combination Rolling Mill," Rolling Mills; Studies, Calculation, Design and Operation, No. 8, Moscow, Mashgiz, 1956. 258 p.

"Hammer + Sickle Plant."

TRET'YAKOV, A.V., kandidat tekhnicheskikh nauk.

Changes in yield limit and strength in relation to the size reduction in the cold rolling of stainless steel strips. Metalloved.i obr.met. no.4:56-58 Ap '56. (MLRA 9:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.
(Steel, Stainless--Cold working) (Rolling (Metalwork))

SOV/124-57-8-9686

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 151 (USSR)

AUTHORS: Korolev, A. A., Tret'yakov, A. V.

TITLE: Investigation of the Process of Cold-rolling of a Thin Stainless-steel Strip on a Model-TsKBMM Combination Mill (Issledovaniye protessa kholodnoy prokatki nerzhaveyushchey stal'noy lenty na kombinirovannom stane TsKBMM)

PERIODICAL: V sb.: Prokatnyye stany. Nr 8, Moscow, Mashgiz, 1956, pp 118-133

ABSTRACT: Bibliographic entry

Card 1/1

130-9-21/21

AUTHOR: None given.

TITLE: New Books (Novyye Knigi)

PERIODICAL: Metallurg, 1957, Nr 9, p.41 (USSR)

ABSTRACT: Reviews of the following books are given: Inter-works Study Group for Progressive Methods of Wire Manufacture (Mezhzavodskaya Shkola Peredovogo Opyta Po Proizvodstvu Provoloki), Moscow, Metallurgizdat, 1957; Merzlyakov, V.I., Treatment and Repair of Rolling Rolls (Obrabotka i Remont Prokatnykh Valkov), Moscow, Metallurgizdat, 1957; Tret'yakov, A.V., Rolling Very Thin Strip (Prokatka Tonchayshey Lenty), Moscow, Metallurgizdat, 1957; Collection of Rationalisers' Proposals, No.71 (Sbornik Ratsionalizatorskikh Predlozheniy No.71).

AVAILABLE: Library of Congress.

Card 1/1

S/137/60/000/011/019/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No.11, p.118, # 26156

AUTHOR: Tret'yakov, A.V.

TITLE: Modern Trends in the Development of Cold Strip Rolling Mills

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem dostizh. prokatn. proiz-va", Vol. 2, Leningrad, 1959, pp. 45 - 53

TEXT: The author discusses particularities in the design and technology of cold rolling mills including two-roll, multi-roll and combined mills. Basic data are presented on modern cold strip-rolling mills such as: the diameter of working and backing rolls, the length of the working rolls, the strip width, minimum thickness of the finished strip, the weight of a metal roll, capacity of the main motors and maximum rolling speed.

V.M.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

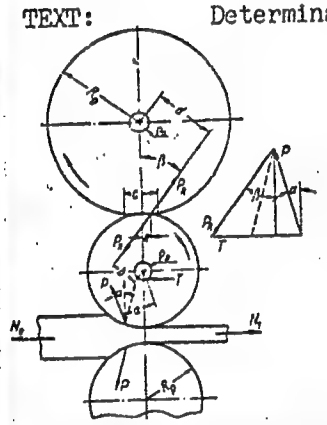
S/122/60/000/009/006/015
A161/A026

AUTHOR: Tret'yakov, A.V., Candidate of Technical Sciences

TITLE: Torque Calculation for Four-High Rolling Mills With Driving Support Rolls

PERIODICAL: Vestnik mashinostroyeniya, 1960, No. 9, pp. 44 - 45

TEXT: Determination of torque transmitted by driving support rolls is important in designing four-high rolling mills for thin strip. This mill design is coming into extensive use. Calulation of torque for mills with driving work rolls has been treated before (Ref. 1); in subject article the problem is analyzed for the case of mills with driving support rolls and idling work rolls, taking into account compression and rolling friction. The forces acting on the work roll are presented graphically (see Figure) for rolling with tension applied to the rolled strip, and without. The final formula for torque required for the rotation of two support rolls is:



Card 1/2

S/122/60/000/009/006/015
A161/A026

Torque Calculation for Four-High Rolling Mills With Driving Support

$$\sum M_o = 2P_R (R_o \sin\beta + e\cos\beta + \rho_o) = 2P \frac{\cos\alpha}{\cos\beta} (R_o \sin\beta + e\cos\beta + \rho_o), \quad (10)$$

where ρ_o is the friction-circle radius of the support roll. There is 1 figure and 2 Soviet references.

Card 2/2

POBEDIN, I.S., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk; SHCHEPNINA, L.V., insh.; REVUNOV, V.A., insh.

Performance of disk shears. Metallurg 5 no.6:30-31 Je '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metalloobrabotki i mashinostroyeniya.
(Pipe mills--Equipment and supplies)
(Shears (Machine tools))

TRET'YAKOV, A.V., kand.tekhn.nauk

Calculating torques for four-roll rolling mills with driving support rolls. Vest.mash. 40 no.9:44-45 S '60.
(MIRA 13:9)

(Rolling mills)

TRET'YAKOV, Andrey Vladimirovich; LOKSHIN, Boris Yevgen'yevich; BENYAKOVSKIY, Mark Aleksandrovich; DRUZHININ, N.N., retsenzent; DRAIYUK, B.N., red.; CHAPAYKINA, F.K., red.izd-va; TURKINA, Ye.D., tekhn.red.

[Specific power consumption in cold rolling] Udel'nyi raskhod energii pri kholodnoi prokatke. Sverdlovsk, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Sverdlovskoe otd-nie, 1961. 83 p. (MIRA 14:6)
(Rolling (Metalwork))

EWP(l)/EWT(m)/EWA(d)/EWP(b)/EWP(t) Pf-4 JD/HW

ACCESSION NR: AR5013[illegible]

SOURCE: Ref zh Mashinostr. mat., konstr. i raschet detal. mash. Otd. vyp., Abs. 5.48.59

AUTHOR: Tret'yakov, A. V.; Trofimov, G. K.

TITLE: [illegible] properties of work hardened steels

CITED SOURCE: Tr. Vses. n-i. i proyektno-konstrukt. in-ta metallurg mashinostr., sb. 9, 1963, 210-225

TOPIC TAGS: work hardened steel, steel mechanical property, structural steel, tool steel, alloy steel, mechanical property interrelation

TRANSLATION: Results of mechanical property tests are subjected to a statistical interpretation and empirical functions are evolved which relate tensile strength,

Card 1/2

L 22152-65
ACCESSION NR: AR4045072

yield and Brinell hardness for variously work hardened (0 to 80%) steels. Functions are given for three groups of steels, i.e., structural carbon steels, high quality carbon tool steels and alloy steels, as well as for special purpose steels. Equations expressing the relationship between the above mechanical properties, the corresponding correlation coefficients and their relationship to mean square deviations are represented in tabular form

SUB CODE: MM ENCL: 00

Card 2/2

TRET'YAKOV, Andrey Vladimirovich; TROFIMOV, Georgiy Konstantinovich; ZUZIN, Vladimir Ivanovich; MOKUTIN, Ye.S., prof., doktor tekhn. nauk, retsenzent

[Mechanical properties of metals and alloys during their working by pressure] Mekhanicheskie svoistva metallov i splavov pri obrabotke davleniem. Moskva, Metallurgiia, 1964. 221 p. (MIRA 18:1)

TRET'YAKOV, A.V., kand.tekhn.nauk; GRACHEV, A.V., inzh.

Investigating methods of stationary measurement of the temperature of rolls on cold rolling mills. Stal' 24 no.2:152-153 F '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut tyazhelogo mashinostroyeniya pri Ural'skom zavode tyazhelogo mashinostroyeniya.

TRET'YAKOV, A.V., kand. tekhn. nauk; TERENT'YEV, V.S., kand. tekhn. nauk; KOBELEV, V.A., inzh.; POZINA, R.A., inzh.

Investigating strip tension of finishing machine coilers.
Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:260-274 '65.
(MIRA 18:11)

KRASKOVSKIY, Ye.Ya., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk; BONDYUGIN, V.M., inzh.

Experimental investigation of resistance to rolling. Vest. mashinostr. 45 no.11:26-29 N '65.

(MIRA 18:12)

TRET'YAKOV, A.V.; LOKSHIN, B.Ye.; GARBER, E.A.; TROFIMOV, G.K.

Use of methods of mathematical processing of experimental data in the engineering and construction laboratory of the Scientific Research Institute of Heavy Machinery at the Ural Heavy Machinery Plant. Zav.lab. 31 no.10:1237-1238 '65.

(MIRA 19:1)

TRET'YAKOV, A.V., kand.tekhn.nauk; GRACHEV, A.V., inzh.

Perfecting a device to measure the rolling pressure of metal on the rolls. Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:165-169 '65. (MIRA 18:11)

TRET'YAKOV, A.V., kand.tekhn.nauk; GRACHEV, A.V., inzh.

Equipment of cold rolling mills. Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:170-185 '65.

(MIRA 18:11)

TRET'YAKOV, A.V., kand.tekhn.nauk; GARBER, E.A., inzh.

Methods of comparing and analyzing the resistance of rolls used in cold rolling. Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:228-238 '65. (MIRA 18:11)

TRET'YAKOV, A.V., kand.tekhn.nauk; LOKSHIN, B.Ye., inzh.

Investigating the rigidity of the working stand of a 490/1370X1680 reversing cold rolling mill. Sbor. st. NIITIAZHMASHa Uralmashzavoda no.6:244-249 '65.

(MIRA 18:11)

L 61829-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(b)/
EWA(c) Pf-4 JD/HW

AM5011715 BOOK EXPLOITATION UR/ 546.3:620.170 38 35 B+1

Tret'yakov, Andrey Vladimirovich; Trofimov, Georgiy Konstantinovich; Zyuzin, Vladimir Ivanovich

Mechanical properties of metals and alloys during metalworking by pressure (Mekhanicheskiye svoystva metallov i splavov pru obrabotka davleniyem), Moscow, Izd-vo "Metallurgiya", 64. 221 p. illus., biblio.

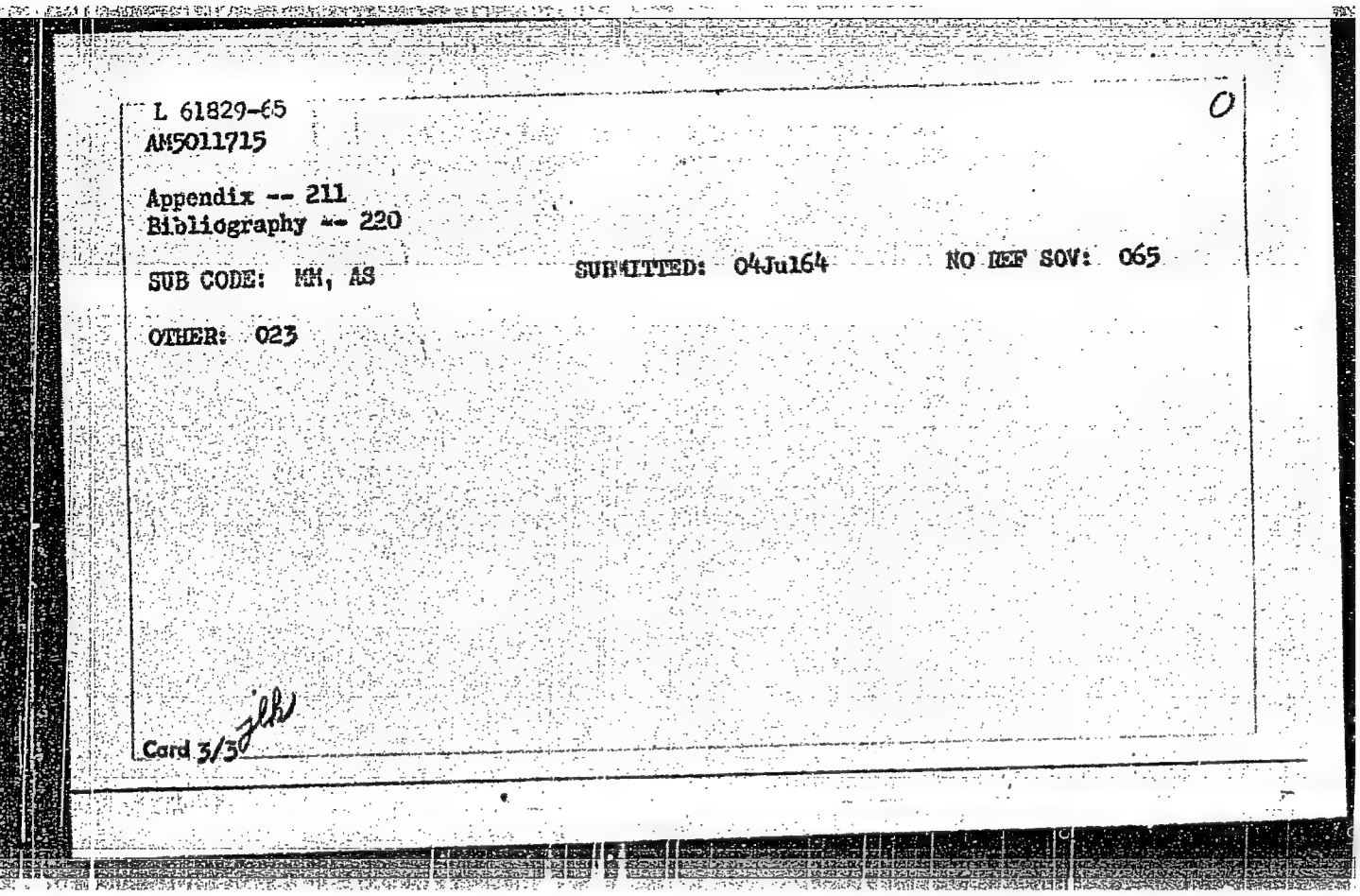
TOPIC TAGS: metalworking, cold working, metal test, cold rolling, hot rolling, material deformation, plasticity, metal property, plastic deformation

PURPOSE AND COVERAGE: The book presents generalized data on the change in mechanical properties of metals and alloys during metalworking by pressure. In cold-rolling they are shown in relation to the degree of deformation and in hot-rolling in relation to temperature, the degree and speed of deformation. The basic methods of mechanical testing in the cold and hot state are described, and an analysis of the influence of various factors on the change in mechanical properties in the process of plastic deformation is presented. The book is intended

Card 1/3

plants, builders, and workers of scientific research and design organizations and can be useful for students of higher educational institutions.

TABLE OF CONTENTS:



L 61829-65
AM5011715

Appendix -- 211
Bibliography -- 220

SUB CODE: MM, AS SUBMITTED: 04Jul64 NO REF SOV: 065

OTHER: 023

Card 3/3 jlk

L 63500-65 EWP(k)/EWP(z)/EWA(c)/EWT(d)/EWT(m)/EWP(h)/EWP(b)/T/EWA(d)/EWP(w)/EWP(v)/- UR/3104/65/000/006/0250/0254

ACCESSION NR: AT5018186 EWP(t) JW/JD/HW

AUTHORS: Tret'yakov, A. V. (Candidate of technical sciences); Lokshin, B. Ye. (Engineer); Trofimov, U. K. (Engineer)

TITLE: Modification of the mechanical properties of steels and the power expenditure during cold rolling on a reversing mill 1680

SOURCE: Ural'skiy mashinostroitel'nyy zavod, Sverdlovsk. Nauchno-issledovatel'skiy institut tyazhelogo mashinostroyeniya. Proizvodstvo krupnykh mashin, no. 6, 1965. Prokatnoye oborudovaniye; konstruirovaniye raschet i issledovaniye (Rolling equipment; construction, [illegible] investigation; [illegible] alloy, [illegible]

TOPIC TAGS: cold rolling, steel, metal physical property, [illegible] mechanical property

ABSTRACT: The purpose of the investigation was to obtain additional experimental data for design calculations of rolling mills. Carbon and alloy steels were experimentally cold-rolled on a reversing mill model 1680 with 1370 mm diameter back-up and 490 mm diameter working rolls driven through a gear reducer by a [illegible] kw, 300-[illegible] rpm DC motor. Two coilers with [illegible] were driven by [illegible] kw, [illegible] rpm DC motors. The maximal [illegible] material was up to 1500 mm. An emulsion type of lubricant was used. [illegible] strength, yield point, and Brinell hardness were determined as functions of the

Card 1/2

L 63500-65
ACCESSION NR: AT5018186

thickness reduction. The greatest increase of mechanical properties was observed in the range of thickness reduction, zero to 30%. The tensile strength of the EI811 steel rose from 77 to 100 kg/mm^2, the yield point from 67 to 86 kg/mm^2, and the hardness from 260 to 325 kg/mm^2. The same data for the 30KhGSA steel were 64 to 92 kg/mm^2, 47.5 kg/mm^2 to 81.5 kg/mm^2, and 180 to 270 kg/mm^2 respectively. The Kh18N9T steel required the power input of 74 kw·hr/ton of the 3-mm material reduced to a 0.82-mm thickness. The lowest input was required by the 18KhGNRA steel with a thickness of 3.9 mm reduced to 3.0 mm. The other steels tested were: EI811, EI763 and 30KhGSA. Orig. art. has: 5 graphs.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: IE, MM

NO REF SOV: 002 OTHER: 000

Card 2/2

TRET'YAKOV, A.V.; GRACHEV, A.V.; KOBELEV, V.

Review of the book by I.M.Meerovich and A.S.Filatov "Force measurement during rolling." Stal' 24 no.7:638 Jl '64.

(MIRA 18:1)

TRET'YAKOV, A.V.; TROFIMOV, G.K.

Empirical formulae for determining the mechanical characteristics of cold-worked steels. Zav. lab. 30 no.7:862-863 '64.
(MIRA 18:3)

1. Ural'skiy zavod tyazhelogo mashinostroyeniya.

L 39730-65 EWT(d)/EWP(m)/EWP(w)/EPF(c)/EWA(d)/EWT(v)/EPR/T/EWP(t)/EWP(k)/
EWP(h)/EWP(b)/EWP(l)

ACCESSION NR: AR5006882

S/0137/64/000/011/D008/D009

SOURCE: Ref. zh. Metallurgiya, Abs. 11D54

AUTHOR: Tret'yakov, A. V.; Bondyugin, V. M.

TITLE: Friction losses in cold rolling mill stands

CITED SOURCE: Tr. Vses. n.-i. i proyektno-konstrukt. in-ta metallurg. mashinostr., sb. 11, 1964, 91-98

TOPIC TAGS: rolling mill, friction loss, cold rolling, rolling moment, friction coefficient, friction moment, specific pressure

TRANSLATION: A theoretical analysis of losses in the stands of mills due to friction in the bearings and to rolling friction between supporting and working rollers has been made. 4-roller and 12-roller mills were selected for the analysis. It was established that the nature of the change in the rolling moment and the friction coefficient is analogous for both mills. With an increase in the mean specific pressure, at constant absolute reduction the friction moment in the bearings increases in direct proportion to the rolling

Card 1/2

L 39730-65
ACCESSION NR: AR5005856

moment, while the rolling friction moment is directly proportional to the product of rolling moment x mean specific pressure. With an increase in the absolute reduction (with mean specific pressure = constant), the rolling friction and the friction coefficient losses in the bearings increase. Relative losses due to friction increase with a decrease in [illegible] ... decrease yield point of the ... rolling moment, friction moment = (10-70)% rolling moment = (1 -10) a 12-roller mill, rolling friction moment = (40-150)% rolling moment; and, for friction moment = [illegible] ... (120-90)% rolling moment for a 12-roller mill ... moment = (80-120)% rolling

SUB CODE: MM ENCL: 00

Card 2/2

GRISHKOV, A.I., kand.tekhn.nauk; TRET'YAKOV, A.V., kand.tekhn.nauk

Review of A.I.TSelikov's book "Theory of the calculation of forces in rolling mills." Stal' 23 no. 3:256-257 Mr '64. (MIRA 17:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P.Bardina (for Grishkov). 2. Nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut tyazhelogo mashinostroyeniya Ural'skogo zavoda tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze (for Tret'yakov).

TRET'YAKOV, A.V., kand.tekhn.nauk; TERENT'YEV, V.S., inzh.; POZINA, R.A., inzh.

Design of rolling mill reelers and auxiliary units. Vest.mashinostr. 44 no.1:15-16 Ja '64. (MIRA 17:4)

TRET'YAKOV, A.V.; LOKSHIN, B.Ye.; GOL'DENBERG, I.

New books. Metallurg 8 no.12:35-36 D '63. (MIRA 17:4)

SUYAROV, Dmitriy Il'ich; BENYAKOVSKIY, Mark Aleksandrovich; TRET'YAKOV, A.V. red.; VLADIMIROV, Yu.V., red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Quality of thin steel sheets] Kachestvo tonkikh stal'nykh listov. Moskva, Izd-vo Metallurgiia, 1964. 174 p.
(MIRA 17:4)

ACCESSION NO: AP4013315

S/0032/64/030/002/0234/0235

AUTHORS: Oreshkin, P. T.; Trot'yakov, A. V.; By*kov, S. B.; Grachev, A. V.; Karateyev, A. D.

TITLE: Thermistors for measuring surface temperatures of bodies

SOURCE: Zavodskaya laboratoriya, v. 30, no. 2, 1964, 234-235

TOPIC TAGS: thermistor, surface temperature, thermistor SMI-1, thermistor SMI-2, thermistor ITV-275

ABSTRACT: The working portions of thermistors SMI-1 and SMI-2 represent grains 0.5 x 0.5 x 0.5 mm in size, consisting of 75% CuO and 25% Fe_2O_3. Two opposite surfaces of each grain are coated with silver. In a contactless thermistor SMI-1 two steel wires are soldered to the silvered surfaces; in a contact thermistor SMI-2 one of the leads is a spring and the other a wire. The working parts are coated either with enamel or with lacquer, the former coating serving up to temperatures of 300-350C, the latter up to 80-100C. Preliminary graduating of thermistors was accomplished on a hollow steel roller with a nichrome heating element installed along its axis. Surface temperatures were measured with a thermocouple. Thermistor SMI-1 was enclosed in a textolite cup and fixed on the roller.

Card 1/2

ACCESSION NO: AP4013315

Contactless thermistor ITV-275 was held at 0.75 ± 0.15 mm from the roller. In both cases the temperatures were somewhat lower than those shown by the thermocouple. This difference increased with the distance from the roller, with the speed of revolution of the roller, and with air circulation. However, for continuously fluid-cooled rollers, the contactless and the contact thermistors gave equal readings. Contactless thermistors were found adaptable to stationary conditions. Readings obtained with a contact thermistor SMI-2 varied with the amount of pressure applied to the spring. For a wet roller these readings were similar to those obtained with SMI-1. The contact thermistor was found useful for measuring surface temperatures of ferromagnetic bodies. It provides readings every 5-7 seconds. Orig. art. has: 2 figures.

ASSOCIATION: Sibirskiy metallurgicheskiy institut i Uralmashzavod (Siberian Metallurgical Institute and Uralmashzavod)

SUBMITTED: 00 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: SD NO REF SOV: 002 OTHER: 000

Card 2/2

TRET'YAKOV, A.V., kand. tekhn. nauk; GARBER, E.A., inzh.

New methods of calculating roll durability on cold rolling mills. Stal' 23 no.10:918-921 O '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut tyazhelogo mashinostroyeniya pri Ural'skom zavode tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze.

KHIMICH, G.L.; TRET'YAKOV, A.V.

Modern rolling mills and their equipment. Metallurg 8 no.6: 22-25 Je '63. (MIRA 16:7)

1. Nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut tyazhelogo mashinostroyeniya Uralmashzavoda.
(Rolling mills)

L 15578-63 EWT(d)/EWP(k)/EWP(q)/EWT(m)/BDS AFFTC/ASD Pf-4 JD/HW

ACCESSION NR: AP3001664 S/0130/63/000/006/0022/0025

AUTHORS: Khimich, G. L.; Tret'yakov, A. V.

TITLE: Modern rolling mills and their equipment

SOURCE: Metallurg, no. 6, 1963, 22-25

TOPIC TAGS: rolling mill, mill equipment

ABSTRACT: The authors discuss the present state of the steel rolling technology and the improvements needed for fulfillment of the production plans set by the November 1962 resolution of TsK KPSS (Central Committee of the Communist Party of the USSR). Further technological development would require a wide application of automation and a mechanization of rolling mills. The following steps have been made in this direction: 1) the blooming mill 1300 was designed for a fully automatic technological process; 2) the continuous four-stand mill 1700 for cold rolling was installed in two plants (its rolling speed is up to 25 m/sec; it is partially automated); 3) endless feeding systems that deliver heated ingots to blooming and slab mills have been installed in several plants (their delivery cycles are 30-35 seconds) and production of the blooming mill was increased 25% after installation; 4) the design of a system for accurate measurement of the temperature in the rollers of a

Card 1/2

L 15578-63

ACCESSION NR: AP3001664

high-speed cold-rolling mill (10 m/sec) is still in the research stage. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: NIItyazhmash Uralmashzavoda (Scientific Research Institute for Heavy Machines, Ural Machine Factory)

SUBMITTED: 00	DATE ACQ: 09Jul63	ENCL: 00
SUB CODE: ML	NO REF SOV: 000	OTHER: 000

Card 2/2

TRET'YAKOV, A.V.; POZINA, R.A.

Effect of preheating the rolls on their durability. Metallurg 8 no.1:29-30 Ja '63. (MIRA 16:1)

1. Nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut tyazhelogo mashinostroyeniya Ural'skogo zavoda tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze.
(Rolls (Iron mills))

TRET'YAKOV, A. V., kand. tekhn. nauk; TSZYAN SHAO[Chiang Shao], aspirant; POZINA, R. A., inzh.

Investigation of coiler drums. Trudy Ural'. politekh. inst. no.119:50-53 '62. (MIRA 16:1)

(Rolling mills—Equipment and supplies)

TRET'YAKOV, A.V.; LOKSHIN, B.Ye.; TROFIMOV, G.K.

Investigating the cold rolling of the bimetal Armco iron-ASM alloy. TSvet.met. 35 no.12:48-53 D '62. (MIRA 16:2)
(Rolling (Metalwork)) (Laminated metals)

S/124/63/000/003/055/065
D234/D308

AUTHORS: Tret'yakov, A. V. and Al'brekht, E. G.

TITLE: Empirical formulas for determining the mechanical properties of metals in cold rolling

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1963, 35, abstract 3V250 (In collection: Prokatn. proiz-vo. no.2, Sverdlovsk, Metallurgizdat, 1960, 21-24)

TEXT: The author found a regularity in the type and magnitude of the variation of strength and yield limits during deformation for different groups of metals. As a result of analysis of a large volume of experimental data they succeeded in distinguishing five groups of metals: low-carbon steels, quality carbon steels, high-quality carbon steels, aluminum alloys and copper alloys (brass). [Abstracter's note: Complete translation.]

Card 1/1

S/130/63/000/001/007/008
A006/A101

AUTHORS: Tret'yakov, A. V., Pozina, R. A.

TITLE: The effect of roll preheating upon their durability

PERIODICAL: Metallurg, no. 1, 1963, 29 - 30

TEXT: Preheating of cold-rolling mill rolls is performed to prevent sharp temperature changes during their operation. When the preliminarily heat treated rolls are mounted on the mill, residual stresses are relieved during accelerated relaxation; overstresses are prevented in the roll body during the initial moment of rolling. Experimental investigations were carried out at a Leningrad steel rolling plant with the participation of E. A. Garber, A. A. Kholostykh, M. A. Kopanov and A. L. Sukhanov. The rolls were preheated in an electric oil bath at 45 - 55°C for 2 - 4 hours. Their mean durability was 45.5 hours against 17.5 hours for rolls that were not subjected to preliminary heat treatment.

ASSOCIATION: NIITYAZhMASh Uralmashzavoda (Uralmashzavod Scientific Research Institute of Heavy Machinebuilding)

Card 1/1

S/136/62/000/012/001/001
E081/E483

AUTHORS: Tret'yakov, A.V., Lokshin, B.Ye., Trofimov, G.K.

TITLE: A study of cold rolling of armco iron / ACM (ASM) alloy bimetal strip

PERIODICAL: Tsvetnyye metally, no.12, 1962, 48-53

TEXT: The authors studied the effect of total reduction in rolling on the relative thickness of the bimetal strip components, the latter parameter being characterized by $c = h_{zh}/h_p$, where h_p and h_{zh} denote the total thickness of the strip and the thickness of the iron layer respectively. It was found that, irrespective of the initial value of c, its magnitude increased linearly with increasing total reduction, reached a maximum at 45 to 50% reduction and then remained practically constant. The final value of c depended only on its initial value and on the total reduction of the strip, being practically unaffected by the initial thickness and width of the strip or by the roll diameter. The experimental results were used to derive formulae expressing the final thickness of the iron layer in a bimetal strip as a function of the initial value of c and vice versa. In the

Card 1/2

A study of cold rolling ... S/136/62/000/012/001/001
E081/E483

second stage of the investigation the roll pressure in cold rolling of iron/ASM alloy bimetal strip was evaluated. Based on experimental data, formulae were first derived expressing the UTS and 0.2% proof stress of the bimetal strip as a function of the UTS and 0.2% proof stress of the two component materials and the relative thickness of each component layer. These formulae were then used for deriving expressions for the roll pressure whose reliability is proved by the fact that they yielded values differing only by 10 to 15% from experimental data. Analysis of the formulae obtained showed that the roll pressure in rolling bimetal strip is, in addition to the usual factors, greatly affected by the initial value of c and by the difference in the contact friction of the two components of the strip. There are 5 figures.

Card 2/2

TRET'YAKOV, A.V., kand.tekhn.nauk; GARBER, E.A., inzh.; POZINA, R.A., inzh.

Calculating thermal stresses in rolls during cold rolling. Vest. mashinostr. 42 no.7:28-30 Jl '62. (MIRA 15:8)
(Rolling (Metalwork)) (Thermal stresses)

POBEDIN, I.S.; TRET'YAKOV, A.V.; SHCHEPNINA, L.V.; REVUNOV, V.A.

Investigating the operation or rotary slitting shears.
Prokat. proizv. no.2:30-43 '60. (MIRA 14:11)
(Rolling mills—Equipment and supplies)
(Shears(Machine tools))

TRET'YAKOV, Andrey Vladimirovich; POBEDIN, I.S., kand. tekhn. nauk, retsenzent; LEDNEV, Mikhail Petrovich, red.; SYRCHINA, M.M., red. izd-va; MAL'KOVA, N.T., tekhn. red.

[Cold-rolling mill potentialities] Rezervy stanov kholodnoi prokatki. Sverdlovsk, Metallurgizdat, 1962. 197 p. (MIRA 15:9)

(Rolling mills)